

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 7-2005)TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371INTERNATIONAL APPLICATION NO.  
PCT/DE04/00115INTERNATIONAL FILING DATE  
02 June 2004 (02.06.04)

ATTORNEY'S DOCKET NUMBER

A-9800

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/561433

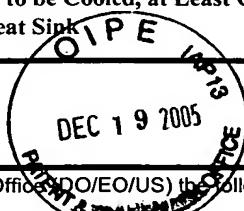
PRIORITY DATE CLAIMED  
17 June 2003 (17.06.03)

## TITLE OF INVENTION

Device with a Heat Source Formed by a Function Element that is to be Cooled, at Least One Heat Sink, and at Least One Intermediate Layer Located Between the Heat Source and the Heat Sink

## APPLICANT(S) FOR DO/EO/US

Jurgen Schulz-Harder and Ernst Hammel



Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10.  An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A power of attorney and/or change of address letter.
19.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21.  A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22.  Express Mail Label No.

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U.S. APPLICATION NO (if known, see 37 CFR 1.5) <b>10/561433</b>	INTERNATIONAL APPLICATION NO. <b>PCT/DE04/00115</b>	ATTORNEY'S DOCKET NUMBER <b>A-9800</b>																																																																																										
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<p>The following fees have been submitted:</p> <table border="1"> <tr> <td>24. <input checked="" type="checkbox"/> Basic national fee .....</td> <td>\$300</td> <td>\$ 300.00</td> </tr> <tr> <td>25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article</td> <td>\$0</td> <td>\$ 200.00</td> </tr> <tr> <td>All other situations.....</td> <td>\$200</td> <td></td> </tr> <tr> <td>26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td>\$0</td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority.....</td> <td>\$100</td> <td>\$ 400.00</td> </tr> <tr> <td>International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB.....</td> <td>\$400</td> <td></td> </tr> <tr> <td>All other situations.....</td> <td>\$500</td> <td></td> </tr> <tr> <td colspan="2"><b>TOTAL OF 24, 25 and 26 =</b></td> <td>\$ 900.00</td> </tr> <tr> <td colspan="3"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.         </td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole)</td> </tr> <tr> <td>- 100 =</td> <td>0 /50 =</td> <td>0</td> </tr> <tr> <td colspan="3">           \$ 0.00         </td> </tr> <tr> <td colspan="3">           Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).         </td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> </tr> <tr> <td>Total claims</td> <td>52 - 20 =</td> <td>32</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> </tr> <tr> <td colspan="3">           \$ 1,600.00         </td> </tr> <tr> <td colspan="3">           MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00         </td> </tr> <tr> <td colspan="3">           \$ 0.00         </td> </tr> <tr> <td colspan="3"> <b>TOTAL OF ABOVE CALCULATIONS =</b> </td> </tr> <tr> <td colspan="3"> <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.         </td> </tr> <tr> <td colspan="3"> <b>SUBTOTAL =</b> </td> </tr> <tr> <td colspan="3">           \$ 1,250.00         </td> </tr> <tr> <td colspan="3">           Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).         </td> </tr> <tr> <td colspan="3"> <b>TOTAL NATIONAL FEE =</b> </td> </tr> <tr> <td colspan="3">           \$ 1,250.00         </td> </tr> <tr> <td colspan="3">           Fee for recording the enclosed assignment (37 CFR 1.21(h)). 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c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-2455. A duplicate copy of this sheet is enclosed.

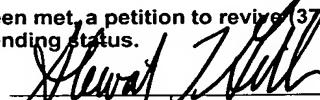
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revise 37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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Crystal Center 2 - Suite 522  
Arlington, VA 22202  
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SIGNATURE

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31,256

REGISTRATION NUMBER

12-19-05

DATE